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- (71) Applicant: **MEDTRONIC, INC.** [US/US]; 710
Medtronic Parkway NE, Minneapolis, MN 55432 (US).
- (74) Agents: **WOODS, Thomas, F.** et al.; Medtronic, Inc., 710
Medtronic Parkway NE, Minneapolis, MN 55432 (US).
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10 October 2002
- (72) Inventor: **VERHOEVEN, Michael**; Endepolsdomein 5,
NL-6229 GW Maastricht (NL).
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: STENTS AND METHODS FOR PREPARING STENTS

(57) Abstract: Radially expandable stents having hydrogel coating layers thereon, and methods of preparing such stents are disclosed. The methods include coating a wire with a solution that includes a solvent and a water soluble polymer in the solvent, evaporating the solvent to provide a polymeric coating on the wire, and crosslinking the polymeric coating to provide a hydrogel coating layer on the wire. The coated wire can be fabricated into stents, which preferably have substantially uniform coatings with low surface roughness. Preferably the coatings have hydrophilic properties and provide a biocompatible surface. The coatings may also provide for the delivery of biologically active agents into the body.

WO 02/041931 A3

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 01/44445

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61L31/10 A61L31/16 A61F2/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61L A61F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 895 761 A (SCHNEIDER USA INC) 10 February 1999 (1999-02-10) paragraph '0014! paragraph '0023! claims 1,6-9	1-21
X	WO 96 25897 A (MENLO CARE INC) 29 August 1996 (1996-08-29) claims 1,2,6,8,9	1-21
A	US 5 968 091 A (FRID NOUREDDINE ET AL) 19 October 1999 (1999-10-19) cited in the application claim 1	1,8,12, 18-21

☐ Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

8 document member of the same patent family

Date of the actual completion of the international search

5 August 2002

Date of mailing of the international search report

20/08/2002

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk

Authorized officer

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 01/44445

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
see FURTHER INFORMATION sheet PCT/ISA/210
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Although claims 18-21 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the composition.

Continuation of Box I.1

Rule 39.1(iv) PCT - Method for treatment of the human or animal body by surgery

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 01/44445

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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